011-25-03



2 | 2 3 #/2 50 SERIAL NO 07-11-03 09/849,010

1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Richard L. Klevans, et al

Serial No.:

09/849,010

Filing Date:

May 4, 2001

Group Art Unit:

2123

JUN 2 6 2003

Technology Center 2100

RECEIVED

Title:

METHOD AND SYSTEM FOR HARDWARE SIMULATION

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. Copies of these references are enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

SERIAL NO. 09/849,010

ATTORNEY DOCKET NO. 064731.0171

2

Pursuant to 37 C.F.R. § 1.97(b), Applicants believe that this Information Disclosure Statement has been filed before the mailing date of a first action. Therefore, Applicants believe that no fee is due. However, if a fee is required, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.

Attorneys for Applicants

Terry J. Stalford Reg. No. 39,522

Date: June <u>23</u>, 2003

2001 Ross Avenue, Suite 600 Dallas, TX 75201-2980 Tel. 214.953.6477

Correspondence Address:

X Customer Number or Bar Code Label

05073
PATENT TRADEMARK OFFICE

PTO-1449

JUN 2 3 ZUN3 g

Information Disclosure Citation
in an Application

Application No. 09/849,010	Applicant(s) Richard L. Klevans	s, et al.
Docket Number 064731.0171	Group Art Unit 2123	Filing Date May 4, 2001

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	6,515,966 B1	02/04/03	Bardalai et al.	370	236	06/06/2000
-	В					BECE	
	С						2002
	D					JUN 2 6	2003

FOREIGN PATENT DOCUMENTS

Technology Center 2100

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL. YES	NO NO
E		-					
F							

NON-PATENT DOCUMENTS

1	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
G	Kermani, et al., "Virtual Cut-through: A New Computer Communication Switching Technique", Computer Networks, Vol. 3, Cover, Table of Contents and pp. 267-285, 1979.	1979
н	Cidon, et al., "MetaRing – A Full Duplex Ring with Fairness and Spatial Reuse", IEEE Transactions on Communications, Vol. 41, Cover and pp. 110-120	01/1993
ı	Ofek, et al., "METANET: Principles of an Arbitrary Topology LAN", IEEE Transactions on Networking, Vol. 3, No. 2, Cover and pp. 169-180	04/1995
J	West, "Introduction to Graph Theory", Prentice Hall, ISBN 0-13-227828-6, QA166.W43 1996, 7 pages Cover, ISBN page, Table of Contents, and pp. 51-85	1996
к	Hunter, et al., "WASPNET: A Wavelength Switched Packet Network", IEEE Communications Magazine, 2-page cover and pp. 120-129	03/1999
L	Hernandez-Valencia, "A Simple Data Link (SDL) Framing Protocol for High-Speed Optical Packet Networks", OIF99.043.0, pp. 1-21	05/04/1999
M	Simpson, "The Point-to-Point Protocol (PPP)", Daydreamer, RFC-1661, 50 pages	07/1994
N	Katz, et al., "Traffic Engineering Extensions to OSPF", IETF Draft, draft-katz-yeung-ospf-traffic-01.txt, pp. 1-8	10/1999
0	Crawley, et al., "A Framework for Qos Based Routing in the Internet", RFC 2386, 35 pages	08/1998
Р	Wimer, et al., FORE Systems, Inc.," OSPF Sub-Areas", IETF Draft, draft-wimer-ospf-sub-areas-00.txt, 13 pages	10/1999
Q	Wimer, et al., FORE Systems, Inc., "Additional OSPF Extensions for Traffic Engineering and Qos Routing", IETF Draft, draft-wimer-ospf-traffic-00.txt, 5 pages	02/1999
R	Yeung, "OSPF Extensions for Traffic Engineering", IETF Draft, draft-yeung-ospf-traffic-00.txt, 9 pages	02/1999
s	Apostolopoulos, et al., "Qos Routing Mechanism and OSPF Extensions", RFC 2676, 47 pages	08/1998
т	Smit, et al., "IS-IS Extensions for Traffic Engineering", IETF Draft, draft-ietf-isis-traffic-00.txt, 10 pages	05/1999
	Awduche, et al., UUNET (MCI WorldCom), "Requirements for Traffic Engineering Over MPLS", RFC	09/1999

EXAMINER

DATE CONSIDERED

PTO-1449 JUN 2 3 2003 &

Information in an Application

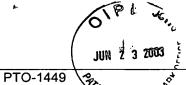
Application No. 09/849,010	Applicant(s) Richard L. Klevans	s, et al.
Docket Number 064731.0171	Group Art Unit 2123	May 4, 200 RECEIVED

NON-PATENT DOCUMENTS

JUN 2 6 2003

	NON-PATENT DOCUMENTS	
	Tec DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	hnology Center
	Blake, et al., "An Architecture for Differentiated Services", RFC 2475, 34 pages	12/1998
V	blake, et al., All Architecture for Differentiated betwees, in C 2473, 34 pages	12/1330
	Braden, et al., "Resource ReSerVation Protocol (RSVP)", Version 1 Functional Specification, RFC 2205, 105	09/1997
₩	pages	
	Wrocławski, "Specification of the Controlled-Load Network Element Service", RFC 2211, 18 pages	09/1997
X		
	Shenker, et al., "Specification of Guaranteed Quality of Service", RFC 2212, 19 pages	09/1997
Y		
	Reynolds, et al., ISI, "Assigned Numbers", RFC 1700, 215 pages	10/1994
Z		
	Jacobson, et al., "An Expedited Forwarding PHB", RFC 2598, 11 pages	06/1999
AA		
A P	Heinanen, et al., "Assured Forwarding PHB Group", RFC 2597, 11 pages	06/1999
AB	A L L D HY L	05/1000
AC	Manchester, et al., Bell Laboratories, "IP over SONET", IEEE Communications Magazine, vol. 36, no. 5, cover and pp. 136-142	05/1998
AU	Heinanen, Telecom Finland "Multi-Protocol Encapsulation over ATM Adaptation Layer 5", RFC 1483, 15	07/1993
AD	pages	07/1993
	The ATM Forum, Technical Committee, "Private Network-Network Interface Specification Version 1.0", af-	03/1996
AE	pnni-0055.000, cover, introduction, acknowledgements and table of contents (18 pages) and 366 pages of text	03/1770
	Callon, Digital Equipment Corporation, "Use of OSI IS-IS for Routing in TCP/IP and Dual Environments",	12/1990
AF	RFC 1195, 80 pages	12.1333
	Moy, Ascend Communications "OSPF Version 2", RFC 2328, 204 pages	04/1998
AG	, , , , , , , , , , , , , , , , , , , ,	
	Malkin, Bay Networks, "RIP Version 2", RFC 2453, 37 pages	11/1998
AH		
	Rekhter, et al., "A Border Gateway Protocol 4 (BGP-4)", RFC 1771, 54 pages	03/1995
AI		
	Goguen, et al., "RSVP Label Allocation for Backup Tunnels", draft-swallow-rsvp-bypass-label-00.txt, IETF	10/1999
AJ	Document, 10 pages	
A 1.7	Callon, et al., "A Framework for MPLS", draft-ietf-mpls-framework-05.txt, IETF document, 69 pages	09/1999
AK		02/1000
AL	Rosen, et al., "Multiprotocol Label Switching Architecture", draft-ietf-mpls-arch-06.txt, IETF Document, 62	02/1999
AL	pages Rosen, et al., "MPLS Label Stack Encoding", IETF document, draft-ietf-mpls-label-encaps-07.txt, 22 pages	09/1999
AM	Rosen, et al., "MPLS Label Stack Encoaing", IETF document, draft-lett-implis-label-encaps-07.1xt, 22 pages	09/1999
	Andersson, et al., "LDP Specification", IETF document, draft-ietf-mpls-ldp-06.txt, 124 pages	10/1999
AN	Andersson, et al., LDF specytcation, 1ETF document, diali-lett-hips-lup-oo.txt, 124 pages	10/1999
	Jamoussi, Nortel Networks Corp., "Constraint-Based LSP Setup Using LDP", draft-ietf-mpls-cr-ldp-03.txt,	09/1999
AO	IETF Document, pp. 1-39	03.1333
	Guerin, "Qos Routing in Networks with Inaccurate Information: Theory and Algorithms", IEEE/ACM	06/1999
AP	Transactions on Networking, Vol. 7, No. 3, cover and pp. 350-364	
	Parekh, et al., "A Generalized Processor Sharing Approach to Flow Control in Integrated Services Networks:	06/1993
AQ	The Single Node Case", IEEE Transactions on Networking, Vol. 1, No. 3, cover and pp. 344-357	
	Parekh, et al., "A Generalized Processor Sharing Approach to Flow Control in Integrated Services Networks:	04/1994
AR	The Multiple Node Case", IEEE Transactions on Networking, Vol. 2, No. 2, cover and pp. 137-150,	
**	Golestani, "A Self-Clocked Fair Queuing Scheme for Broadband Applications", Proceedings of IEEE Infocom	06/1994
AS	'94, Toronto, Ontario, Canada, cover and pp. 636-646	

DATE CONSIDERED



Information Disclosure Citation in an Application

Application No. 09/849,010	Applicant(s) Richard L. Klevan	s, et al.
Docket Number 064731.0171	Group Art Unit 2123	May 4, 20 RECEIVED

NON-PATENT DOCUMENTS

JUN 2 6 2003

	NON-PATENT DOCUMENTS	JUN 2 6 200
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	hnology Center
АТ	Zhang, "Virtual Clock: A New Traffic Control Algorithm for Packet Switching Networks", ACM SIGCOMM Computer Communication Reviews, Vol. 20, No. 4, pp. 19-29	09/1990
AU	Ferrari, et al., "A Scheme for Real-Time Channel Establishment in Wide-Area Networks", IEEE Journal on Selected Areas in Communications, Vol. 8, No. 3, cover and pp. 368-379	04/1990
AV	Wrege, et al., "A Near-Optimal Packet Scheduler for QoS Networks", Proceedings of IEEE Infocom '97, Kobe, Japan, cover and pp. 576-583	04/07-12/1997
AW	Golestani, "A Stop-and-Go Queuing Framework for Congestion Management", ACM SIGCOMM Computer Communications Review, Vol. 20, No. 4., pp. 8-18	09/1990
АХ	Kalmanek, et al., "Rate Controlled Servers for Very High-Speed Networks", Proceedings of IEEE Globecom '90, San Diego, CA, Conference Record Vol. 1 of 3, cover and pp. 300.3.1-300.3.9	12/02-05/1990
AY	Sriram, K., "Methodologies for Bandwidth Allocation, Transmission, Scheduling and Congestion Avoidance in Broadband ATM Networks", Proceedings of IEEE Globecom, '92, Orlando, FL, Conference Record Vol. 3 of 3 cover and pp. 1545-1551	
AZ	Jacobson, et al., "Random Early Detection Gateways for Congestion Avoidance", ACM/IEEE Transactions on Networking, Vol. 1, No. 4, cover and pp. 397-413	08/1993
ВА	Braden, et al., "Recommendations on Queue Management and Congestion Avoidance in the Internet", RFC 2309, 16 pages	04/1998
ВВ	Jacobson, "Notes on Using RED for Queue Management and Congestion Avoidance", Network Research Group, Berkeley National Laboratory, Berkeley, CA, NANOG 13, Dearborn, MI, cover and 15 pages	06/08/1998
вс	May, et al., "Analytic Evaluation of RED Performance", pp. 1-10	06/1998
BD	May, et al., "Reasons Not To Deploy RED", pp. 1-5	05/1999
BE	Lakshman, et al., "SRED: Stabilized RED", pp. 1-10	03/1999
BF	Feng, et al., "BLUE: A New Class of Active Queue Management Algorithms", pp. 1-27	03/1999
BG	Cisco's "Distributed Weighted Random Early Detection", Source = http://www.cisco.com/univered cc/td/doc/product/software/ios111/cc111/wred.htm#xtocid236360, 17 pages	02/09/1998
ВН	J. Wrocławski, MIT LCS "The Use of RSVP with IETF Integrated Services", RFC 2210, 31 pages	09/1997
ВІ	Shenker, et al., "General Characterization Parameters for Integrated Service Network Elements", RFC 2215, 15 pages	09/1997
BJ	Braden, et al., "RAPI An RSVP Application Programming Interface, Version 5", Internet Draft, 25 pages	08/11/1998
вк	Katsube, et al., "Toshiba's Router Architecture Extensions for ATM: Overview", RFC 2098, 17 pages	02/1997
BL	Rekhter, et al., "Cisco Systems' Tag Switching Architecture Overview", RFC 2105, 13 pages	02/1997
вм	Viswanathan, et al., "ARIS: Aggregate Route-Based IP Switching", Internet draft, 19 pages	03/1997
BN	Newman, et al., "Ipsilon Flow Management Protocol Specification for IPv4 Version 1.0", RFC 1953, 19 pages	
во	Davie, et al., "Switching in IP Networks", ISBN 1-558650-505-3, TK5105.875.I57,D38, Morgan Kaufmann Publishers, Inc., San Francisco, CA, 8 pgs. cover, ISBN page, table of contents, pp. 27-55, 117-154, 219-232	1998
ВР	Moy, Proteon, Inc., "OSPF Version 2", RFC 1583, 202 pages	03/1994
AMINE	ER DATE CONSIDERED	

EXAMINER

DATE CONSIDERED

JUN 2-3 2003 E

Information Disclosure Citation in an Application

Application No. 09/849,010	Applicant(s) Richard L. Klevans	s, et al.
Docket Number 064731.0171	Group Art Unit 2123	Filing Date May 4, 2 RECEIVED

NON-PATENT DOCUMENTS

JUN 2 6 2003

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	ology Center 2
BQ	Fuller, et al., "Classless Inter-Domain Routing (CIDR): An Address Assignment and Aggregation Strategy", RFC 1519, 23 PAGES	09/1993
BR	Dumortier, "Toward a New IP over ATM Routing Paradigm", IEEE Communications Magazine, 2-page cover and pp. 82-86	01/1998
BS	White, et al., "ATM Switching and IP Routing Integration: The Next Stage in Internet Evolution?", IEEE Communications Magazine, 2-page cover and pp. 79-83	04/1998
ВТ	Viswanathan, et al., "Evolution of Multiprotocol Label Switching", IEEE Communications Magazine, 2-page cover and pp. 165-173	05/1998
BU	Laubach, "Classical IP and ARP over ATM", RFC 1577, 16 pages	01/1993
BV	Callon, et al., "A Framework for Multiprotocol Label Switching", Internet-Draft, 65 pages	11/1997
вw	Schmidt, et al., "Multiprotocol over ATM – Building State of the Art ATM Intranets", Manning Publications Co., ISBN 1-884777-42-2, TK5105.875.16S36, 8 pgs. cover, ISBN page, table of contents, and pp. 207-289	1998
вх	Halabi, "Internet Routing Architecture", Cisco Systems, New Riders, Cisco Press, 6 pgs. cover, ISBN page table of contents, and pp. 87-190	1997
BY	Finn, et al., "LAN Emulation over ATM Version 2.0- LUNI Specification", The ATM Forum Technical Committee, AF-LANE-0084.000, 153 pages	07/1997
BZ	Alexander, et al., "Multi-Protocol over ATM Version 1.0", AF-MPOA-0087.000, The ATM Forum Technical Committee, 154 pages	07/1997
CA	Deering, Stanford University, "Host Extensions for IP Multicasting", STD 5, RFC 1112, 16 pages	08/1989
СВ	Sahinoglu, et al., "On Multimedia Networks: Self-Similar Traffic and Network Performance", IEEE Communications Magazine, Vol. 37, No. 1, cover and pp. 48-52	01/1999
СС	Fishburn, et al., "Dynamic Behavior of Differential Pricing and Quality of Service Options for the Internet", Proc. First Inter. Conf. on Information and Computation Economics (ICE-98), ACM Press, 1998, pp. 128-139	1998
CD	Steinmetz, et al., "Multimedia: Comuting Communications and Applications", Prentice Hall, ISBN 0-13-324435-0, QA76.575.S73, cover, acknowledgment page, LOC page, Index (15 pgs) and pp. 420-450	1995
CE	Gale, et al., "College Admissions and the Stability of Marriage", The American Mathematical Monthly, Vol. 69, Number 1, cover and pp. 9-15	1962
CF	McKeown, "Scheduling Algorithms for Input-Queued Cell Switches", Ph.D. Thesis, Univ. of California at Berkeley, UMI No. 9602658, 12 pages cover, introduction, acknowledgment and index pages, 119 pages text	1995
CG	Simpson, Daydreamer, "PPP over SONET/SDH", RFC 1619, 6 pages	05/1994
СН	Simpson, Daydreamer, "Point-to-Point Protocol (PPP)", RFC 1661, 50 pages	07/1994
CI	Simpson, Daydreamer, "PPP in HDLC-Like Framing", RFC 1662, 24 pages	07/1994
CJ	McCloghrie, et al., "Management Information Base for Network Management of TCP/IP-Based Internets: MIB-II", RFC 1213, 66 pages	03/26/1991
ск	Baker, et al., Cisco Systems, "OSPF Version 2 Management Information Base", RFC 1850, 75 pages	11/1995
CL	Baker, et al., Cisco Systems, "RSVP Management Information Base Using SMIv2", RFC 2206, 60 pages	09/1997
CM	Kastenholz, FTP Software, Inc., "The Definitions of Managed Objects for the Link Control Protocol of the Point-to-Point Protocol", RFC 1471, 24 pages	06/1993
AMINER		

PTO-1449
Information Charles Citation in an Application

Application No. 09/849,010	Applicant(s) Richard L. Klevans, et al.	
Docket Number 064731.0171	Group Art Unit 2123	Filing Date May 4, 2001

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE		
CN	Kastenholz, FTP Software, Inc., "The Definitions of Managed Objects for the IP Network Control Protocol of the Point-to-Point Protocol", RFC 1473, 10 pages	06/1993		
СО	Baker, Cisco Systems, "IP Forwarding Table MIB", RFC 2096, 20 pages			
СР	Awduche, et al., draft-ietf-tewg-framework-01.txt (IETF), "A Framework for Internet Traffic Engineering", 63 pages	07/2000		
CQ	U.S. Patent Application Serial No. 09/588,634, entitled "Method and System for Providing a Protection Path for Connection-Oriented Signals in a Telecommunications Network", inventors Mo, et al., 32 pages specification, claims and abstract and 3 pages of drawings (Attorney's Docket No. 064731.0141)	06/06/2000		
CR	U.S. Patent Application Serial No. 09/589,038, entitled "Method and System for Providing a Protection Path for Connectionless Signals in a Telecommunications Network", inventors Mo, et al., 38 pages specification, claims and abstract and 9 pages of drawings (Attorney's Docket No. 064731.0142)	06/06/2000		
cs	U.S. Patent Application Serial No. 09/588,806, entitled "Transport Network and Method", inventors Mo, et al., 40 pages specification, claims and abstract and 9 pages of drawings (Attorney's Docket No. 064731.0143)	06/06/2000		
СТ	U.S. Patent Application Serial No. 09/588,636, entitled "Method and System for Transporting Traffic in a Packet-Switched Network", inventors Mo, et al., 32 pages specification, claims and abstract and 6 pages of drawings (Attorney's Docket No. 064731.0144)	06/06/2000		
CU	U.S. Patent Application Serial No. 09/588,632, entitled "System and Method Connectionless/Connection Oriented Signal Transport", inventors Mo, et al., 44 pages specification, claims and abstract and 7 pages of drawings (Attorney's Docket No. 064731.0145)	06/06/2000		
СУ	U.S. Patent Application Serial No. 09/848,994, entitled "Method and System for Quality of Services (QoS) Support in a Packet-Switched Network", inventors Li Mo, et al., 35 pages specification, claims and abstract and 6 pages of drawings (Attorney's Docket No. 064731.0167)	05/04/2001		
CM	U.S. Patent Application Serial No. 09/848,871, entitled "Method and System for Modeling and Advertising Asymmetric Topology of a Node in a Transport Network", inventors Jaber, et al., 35 pages specification, claims and abstract and 10 pages of drawings (Attorney's Docket No. 064731.0169)	05/04/2001		
СХ	U.S. Patent Application Serial No. 09/849,003, entitled "Unique Address Space and Method for a Transport Network", inventor Edwin Alton Harbin, 36 pages specification, claims and abstract and 10 pages of drawings (Attorney's Docket No. 064731.0170)	05/04/2001		
CY				
cz	RECEIVI	ED		
DA	JUN 2 6 2	03		
DB	Technology Cent	er 2100		
DC				
DD				
DE				
DF				
DG				
DH				